



#7B1743
Pre Amended B

Attorney Docket No. SURR.62

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: SINGH, ET AL.

SERIAL NO.: 09/920,440

FILED: AUGUST 1, 2001

TITLE: METHODS FOR SOLID PHASE NANO-
EXTRACTION AND DESORPTION

EXAMINER:

ART UNIT: 1743

CONFIRMATION NO.: 6604

VIA HAND-DELIVERY

Assistant Commissioner for Patents
Washington, D.C. 20231

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PRELIMINARY AMENDMENT

Sir:

AMENDMENT

Please enter the following amendments into the Application:

In the Specification

Please replace paragraphs 6, 7, 18, 21, 22, 45, 63, 88, 103, 108, 120, 127, 133, 150, 152, 173, 179, 182, 192, and the table between Paragraphs 73 and 74 with the following replacement paragraphs and table:

Paragraph 6

Specific affinity binding is a technique used to capture specific target ligands from complex mixtures such as biological fluids. For example, monoclonal or polyclonal antibodies may be immobilized on a surface. When the surface is contacted with the sample, the antibodies bind to components of the mixture. Analysis is conventionally carried out via competitive binding, or in a "sandwich" assay using a secondary antibody. In both modes, there is usually a tag (enzyme, radiolabel, fluorophore, etc.) that is used for detection and/or amplification. An alternative approach is direct detection of bound analytes by surface plasmon resonance or quartz crystal microgravimetry. Specific affinity binding techniques have been applied to proteomics in order to characterize gene products. Although it is highly specific, such immunoseparation has many of the same